Title of Invention: Fault-Tolerant Server Architecture For Collaborative Computing et No.: M-8858 US Inventors: Min Zhu Serial No. 09/752,376 1/27 -110B -110C -110A 110D <u>130</u> 120A--120B 100 FIG. 1A *100* (Prior Art) -110A -110B -110C ~110D

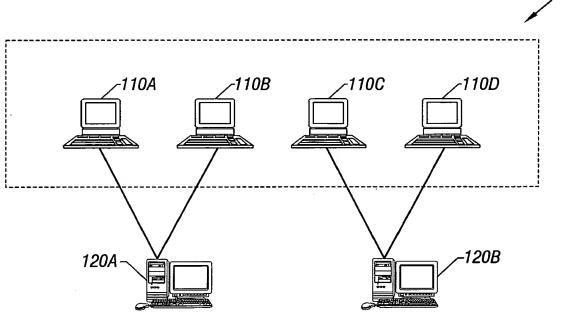


FIG. 1B (Prior Art)

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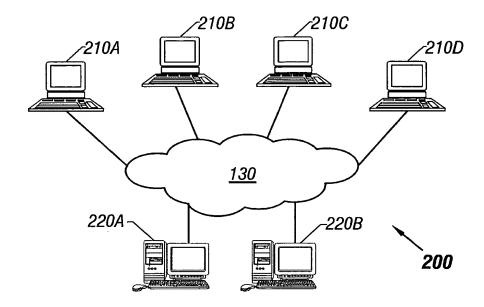


FIG. 2A

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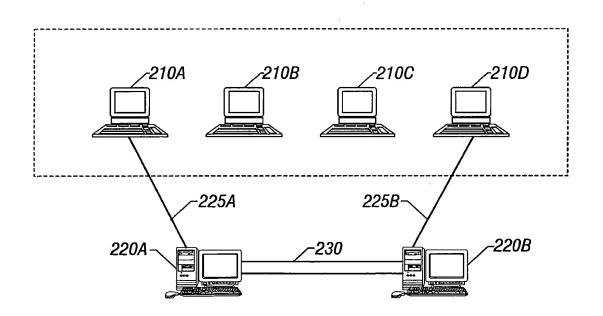


FIG. 2B

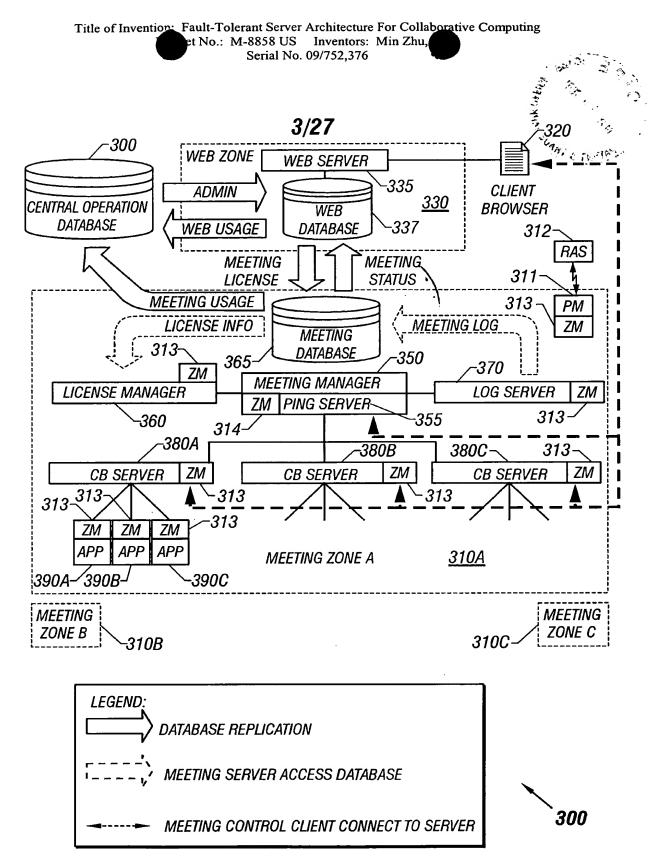
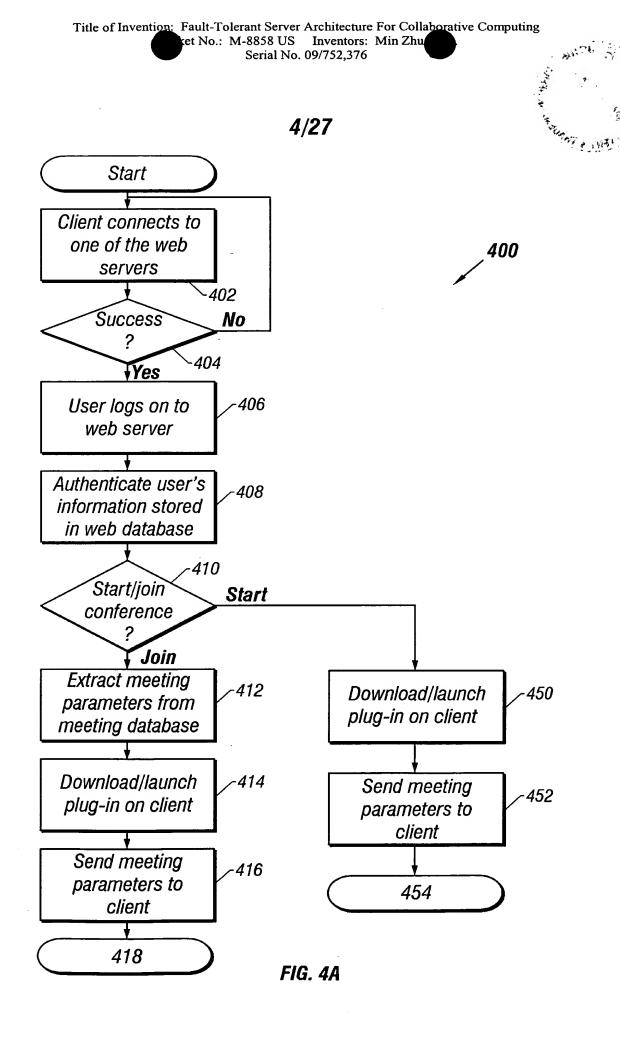
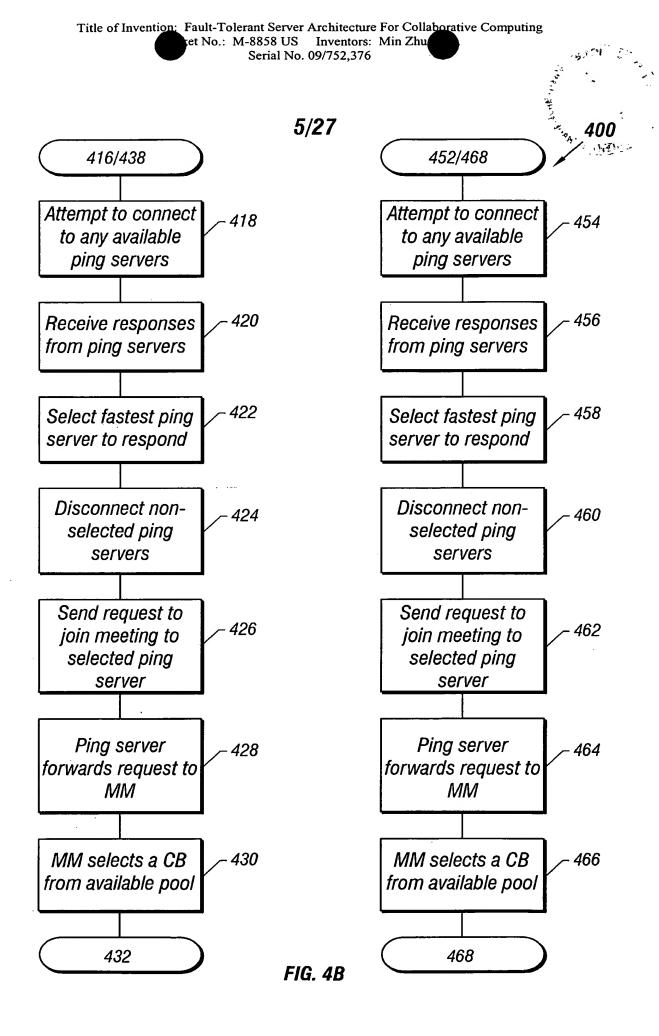


FIG. 3

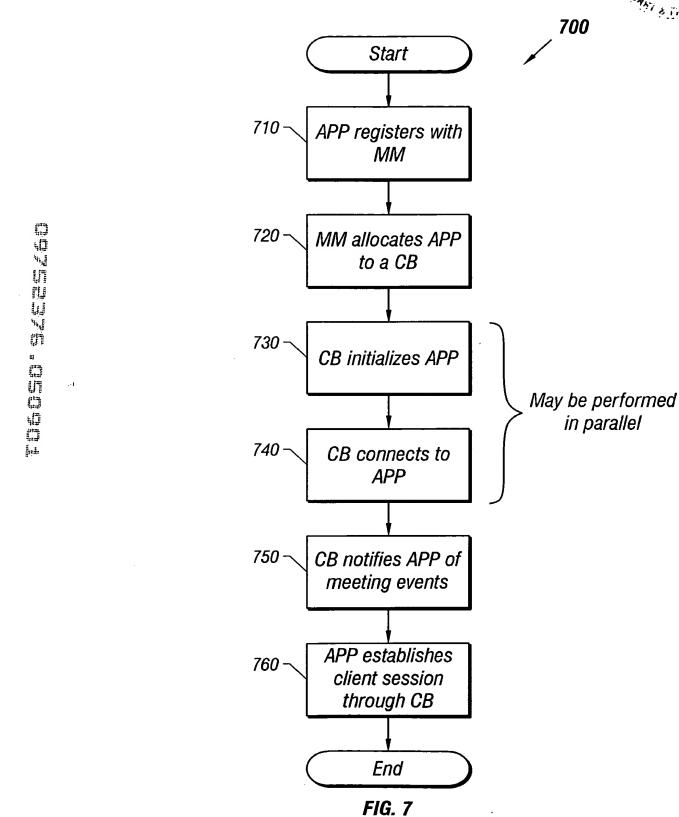




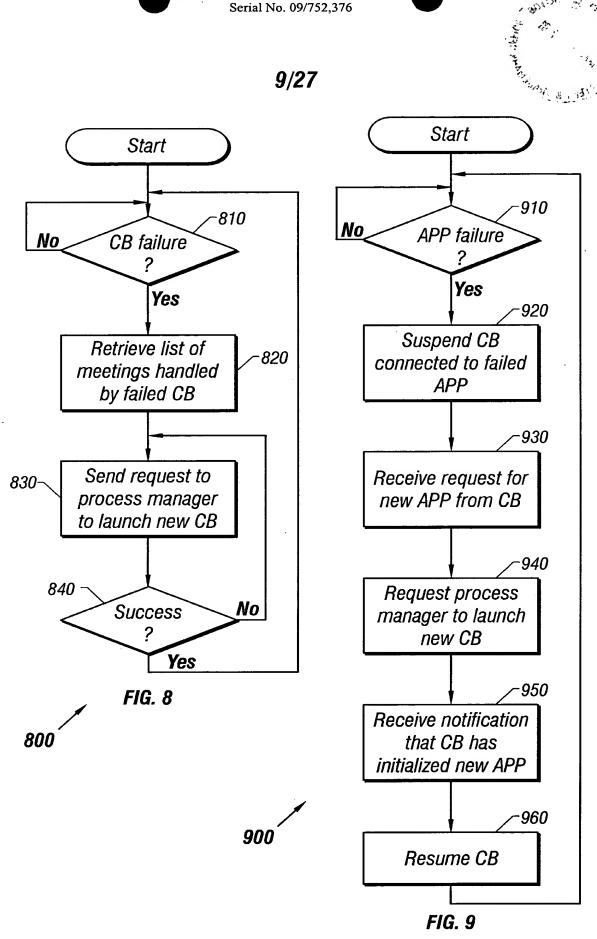
et No.: M-8858 US Inventors: Min Zhu Serial No. 09/752,376 6/27 466 430 CB queries other 432 CBs to find CB 468 hosting meeting MM receives No meeting 434 CB connects to CB confirmation hosting meeting from CB 436 CB replicates 454 meeting data Yes locally MM sends 470 confirmation to 438 ping server MM receives No meeting confirmation Ping server sends from CB 472 meeting confirmation to 418 client Yes MM sends 440 confirmation to End ping server Ping server sends 442 meeting confirmation to 400 client End FIG. 4C

Title of Invention: Fault-Tolerant Server Architecture For Collaborative Computing

Title of Invention: Fault-Tolerant Server Architecture For Collaborative Computing et No.: M-8858 US Inventors: Min Zhu Serial No. 09/752,376 7/27 *500* Start Start 610-New user ? 510 No Log entry ? Yes 620-Yes Verify that meeting user limit is not Update meeting exceeded database 520 630-User limit FIG. 5 No exceeded Yes 640 Notify CB FIG. 6







et No.: M-8858 US Inventors: Min Zhu, Serial No. 09/752,376 10/27 Start Start 1110 MM failure Yes -1120 1010 Process manager License/log launches new MM server failure -1140 Yes Stand-by MM broadcasts election 1020 message Send request to -1150 process manager Select new primary to launch new MM license/log server -1160 Server connect to **PMM** 1030 -1170 Success No Servers register with PMM -1180 Yes PMM recovers server structure 1000 FIG. 10 -1190 CBs report to PMM -1195 1100 PMM recovers conference information FIG. 11

Title of Invention: Fault-Tolerant Server Architecture For Collaborative Computing

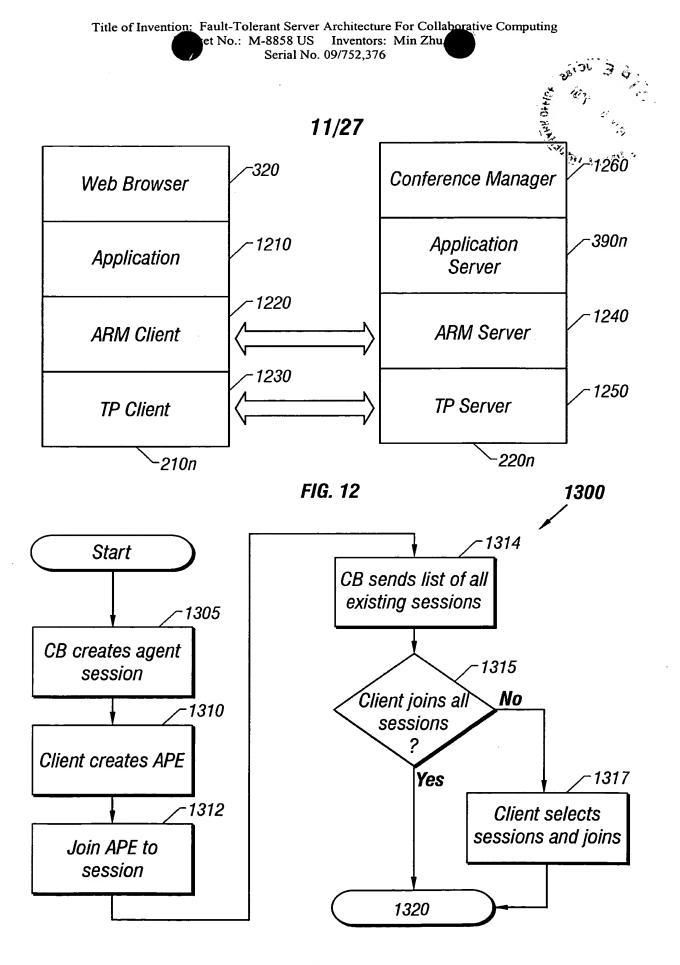
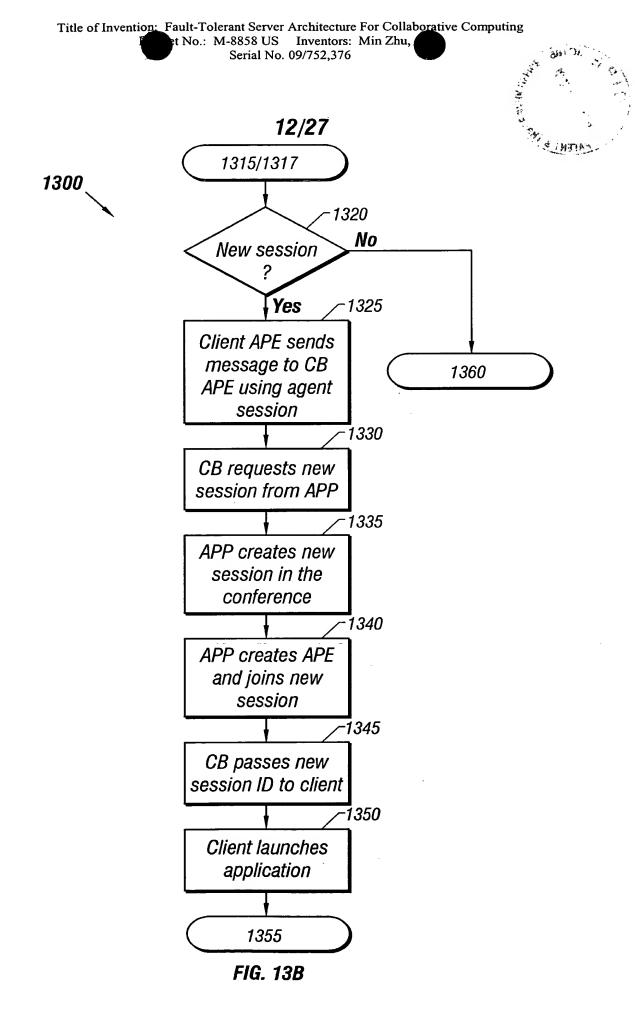


FIG. 13A



Title of Invention: Fault-Tolerant Server Architecture For Collaborative Computing t No.: M-8858 US Inventors: Min Zhu, Serial No. 09/752,376 13/27 1350 New application 1355 creates APE and joins new session 1320 1360 Client joining session No Yes -1370 Request joining session End FIG. 13C

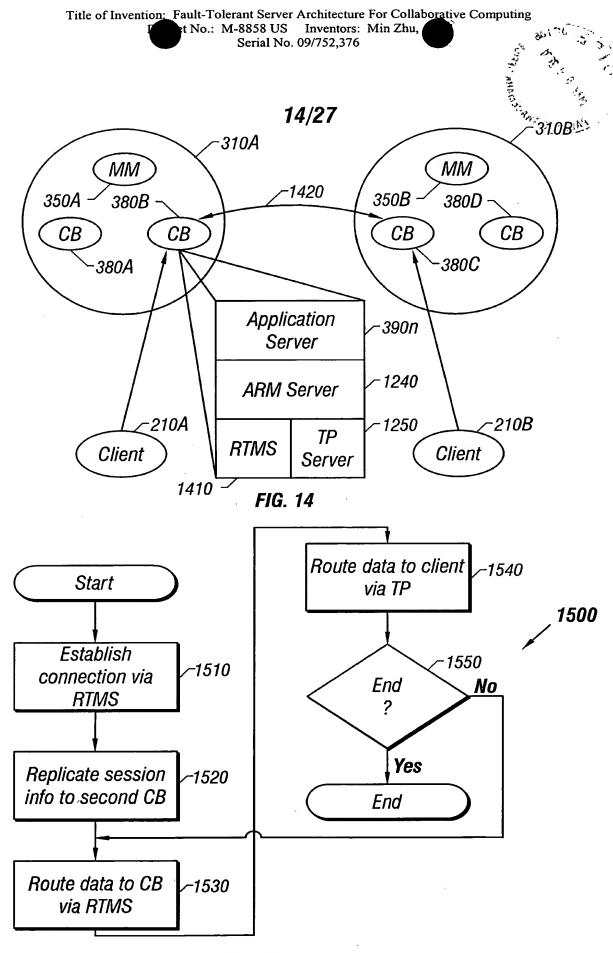
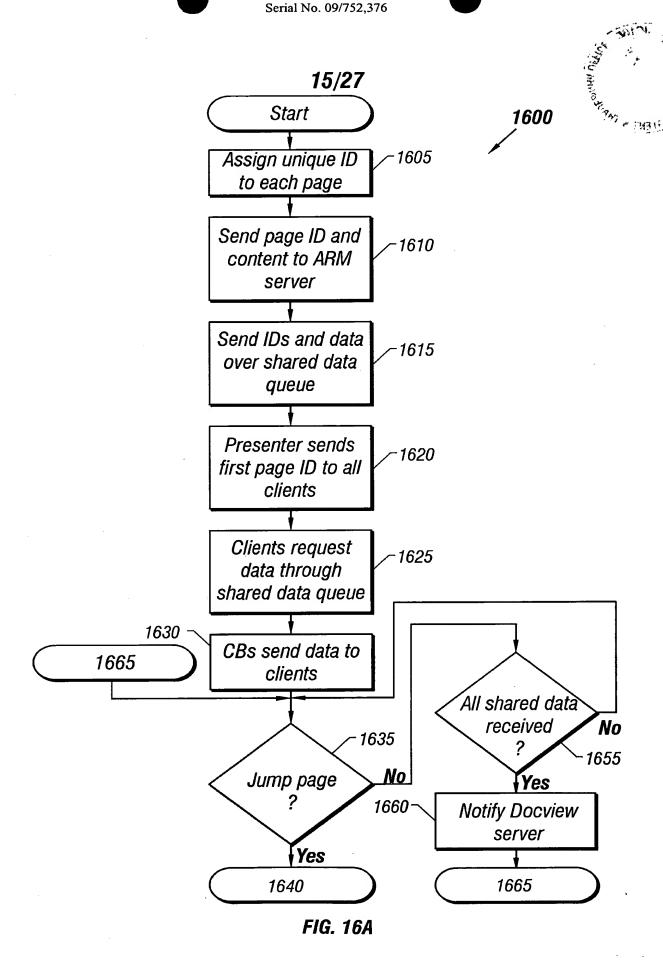


FIG. 15



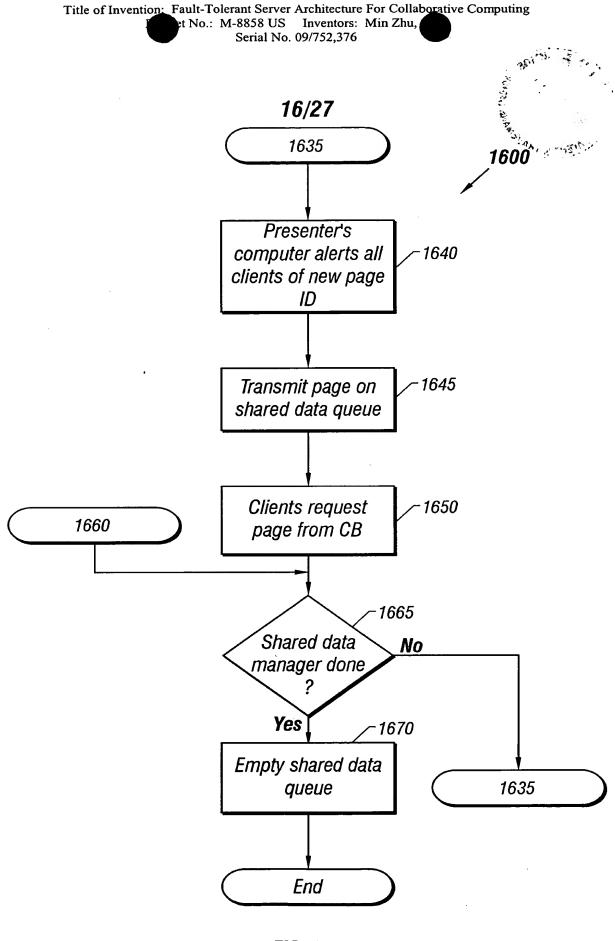
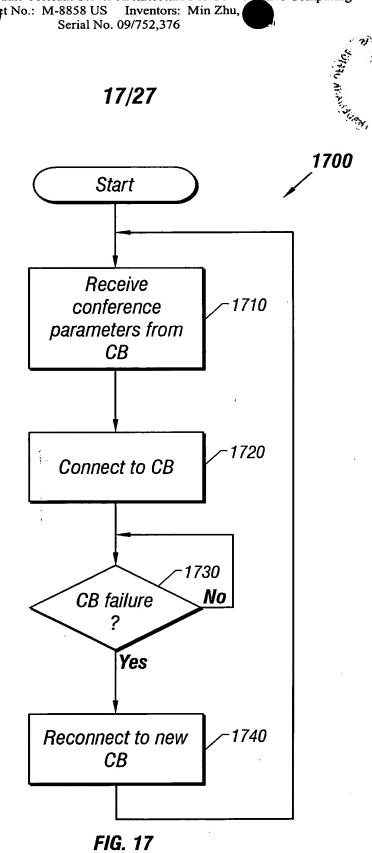


FIG. 16B



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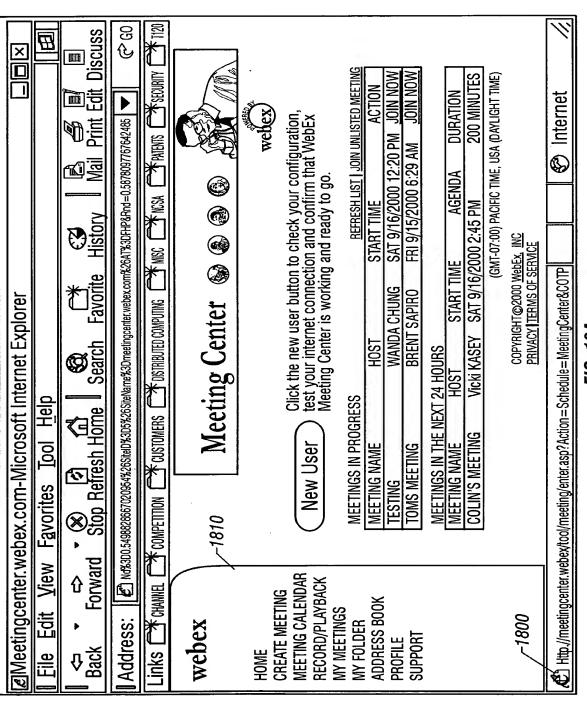


FIG. 18A

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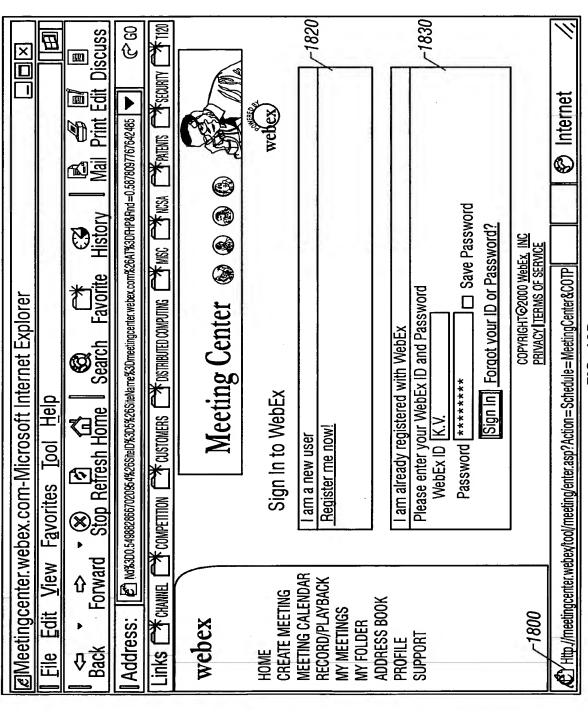


FIG. 18B

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Title of Invention: Fault-Tolerant Server Architecture For Collaborative Computing et No.: M-8858 US Inventors: Min Zhu

Serial No. 09/752,376

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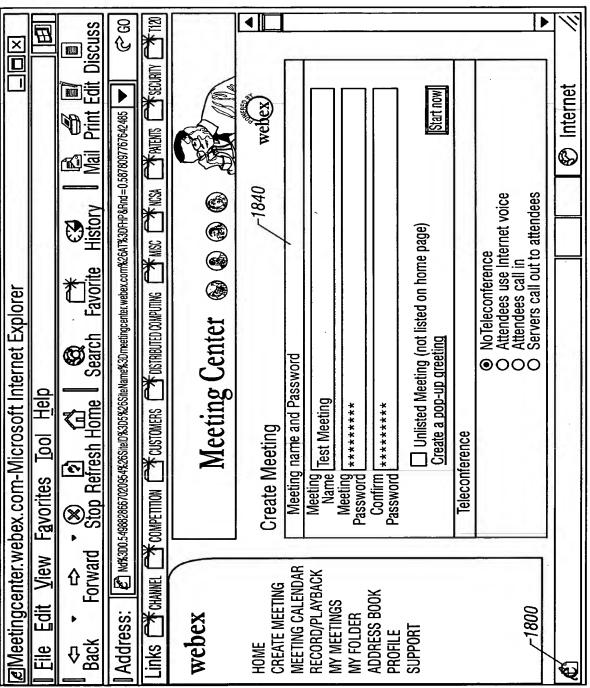
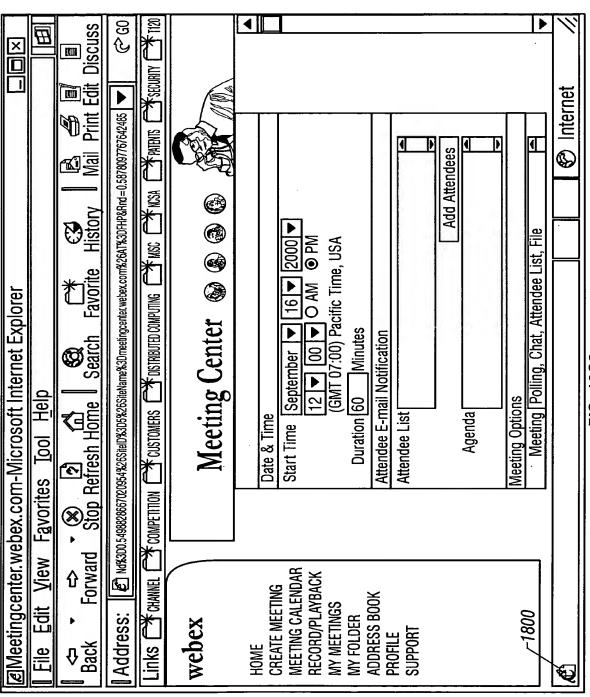


FIG. 18C1

Title of Invention: Fault-Tolerant Server Architecture For Collaborative Computing et No.: M-8858 US Inventors: Min Zhu, Serial No. 09/752,376

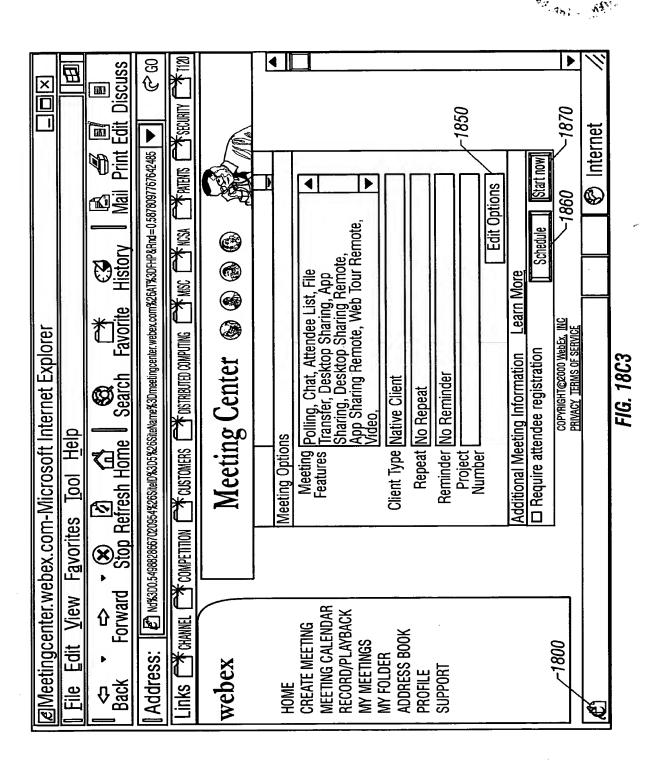
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Title of Invention: Fault-Tolerant Server Architecture For Collaborative Computing et No.: M-8858 US Inventors: Min Zhu, Serial No. 09/752,376

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Title of Invention: Fault-Tolerant Server Architecture For Collaborative Computing et No.: M-8858 US Inventors: Min Zhu, Serial No. 09/752,376

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	Client available to attendees for this meeting. (a) Native (full featured one time download)	
	O Java (no download, limited features)	
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FIG. 19A

et No.: M-8858 US Inventors: Min Zhu Serial No. 09/752,376

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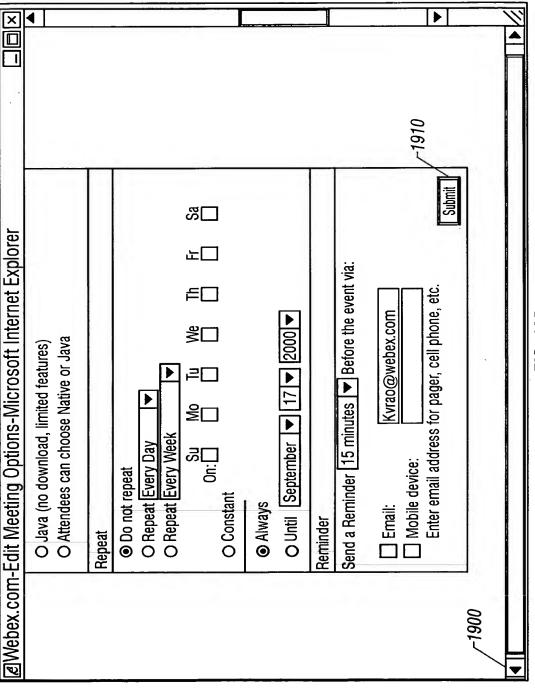
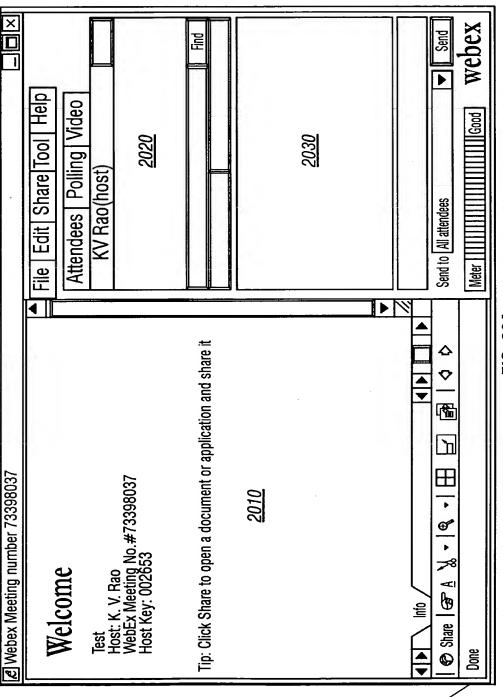


FIG. 19B

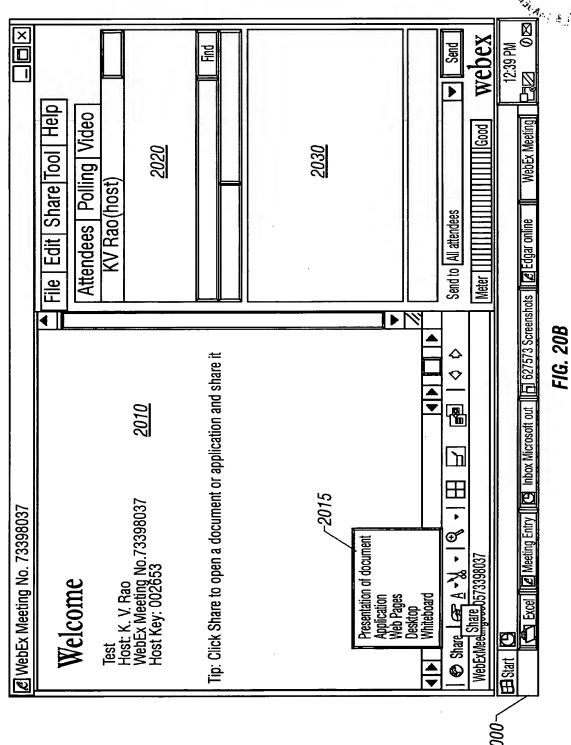
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